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Patent Abstracts of Japan

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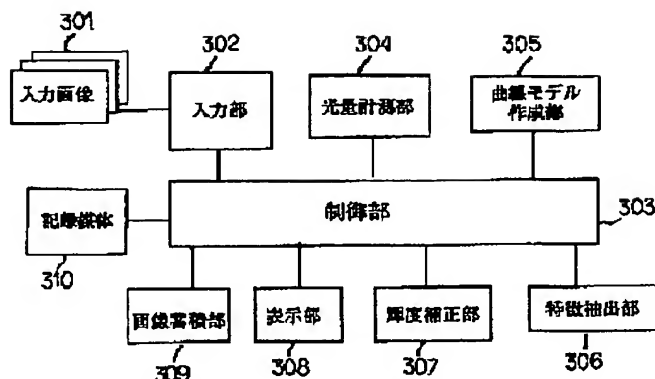
APPLICATION DATE : 03-12-98
APPLICATION NUMBER : 10344496

APPLICANT : NIPPON TELEGR & TELEPH CORP
<NTT>;

INVENTOR : OTSUKA SAKUICHI;

INT.CL. : A61B 3/14 G06T 1/00

TITLE : EYEGROUND IMAGE BRIGHTNESS
CORRECTION METHOD AND DEVICE,
AND RECORDING MEDIUM WHERE
PROGRAM FOR THE METHOD
RECORDED THEREIN



ABSTRACT : PROBLEM TO BE SOLVED: To make an overall eyeground photograph bright and easy to see by correcting the brightness of an eyeground photograph on a computer, using a brightness correction curve model prepared from the distribution of luminous energy of a retinal camera, when preparing an image of uniform brightness by correcting the brightness of an eyeground image photographed with the retinal camera.

SOLUTION: In a control section 303 that receives an input image 30 recorded with flash photography with a retinal camera through an input section 302, the distribution of photographic luminous energy is measured from the input image 301 in a luminous energy measuring section 304, and from this luminous energy distribution, a brightness correction curve model is prepared in a curve model preparation section 305. In a feature extraction section 306, the quantity of features is extracted from the input image 301. Brightness is corrected in a brightness correction section 307 by applying brightness correction curve model to the image, and the image after correction is displayed on a display section 308 and stored in an image accumulating section 309. Thus by correcting the distribution of photographing luminous energy of a photographed image on the basis of the brightness correction curve model, an image whose surroundings are bright is prepared.

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図 1

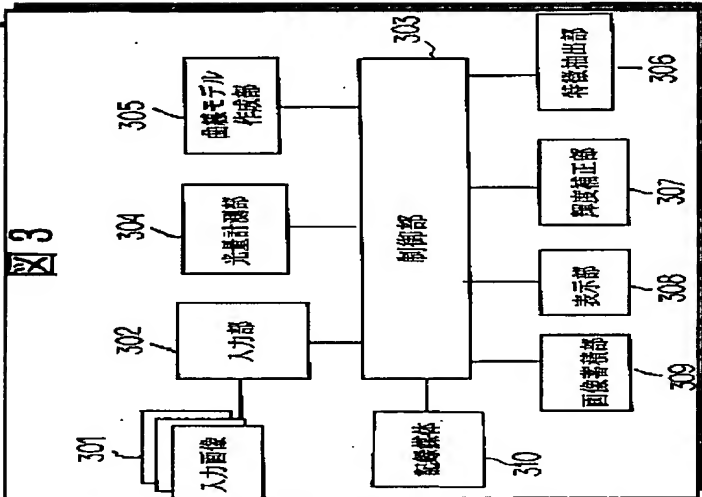
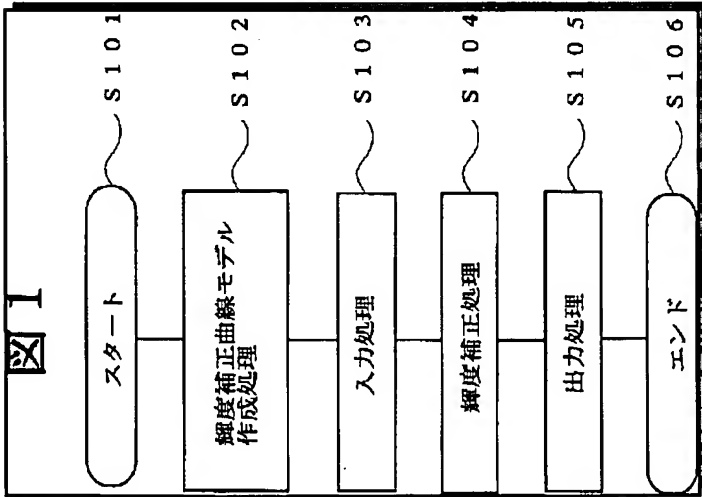
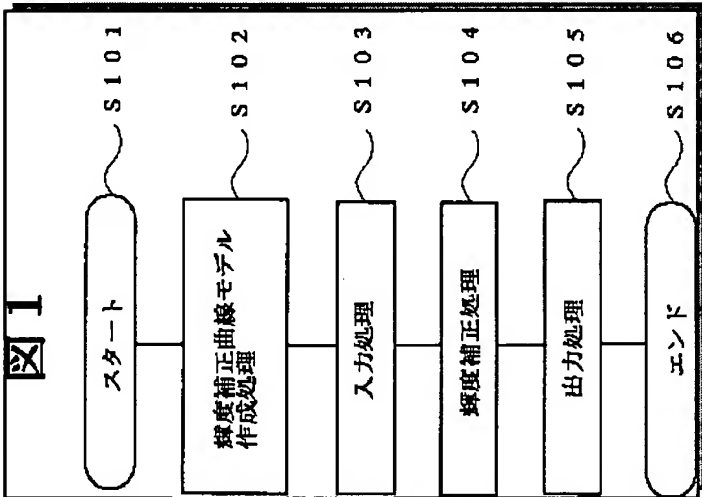


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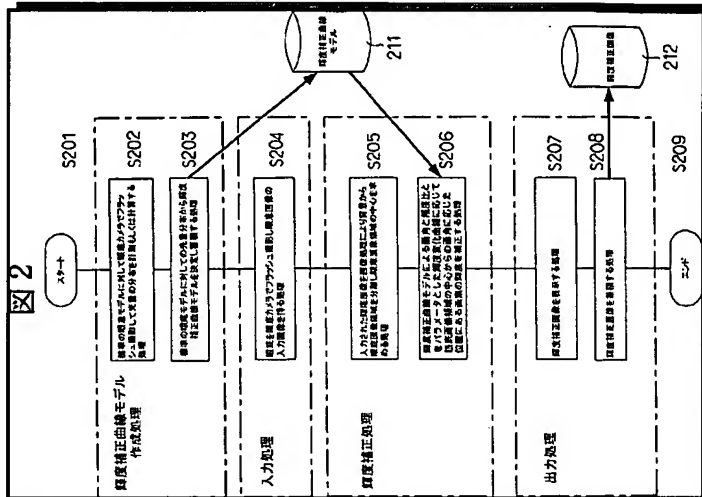


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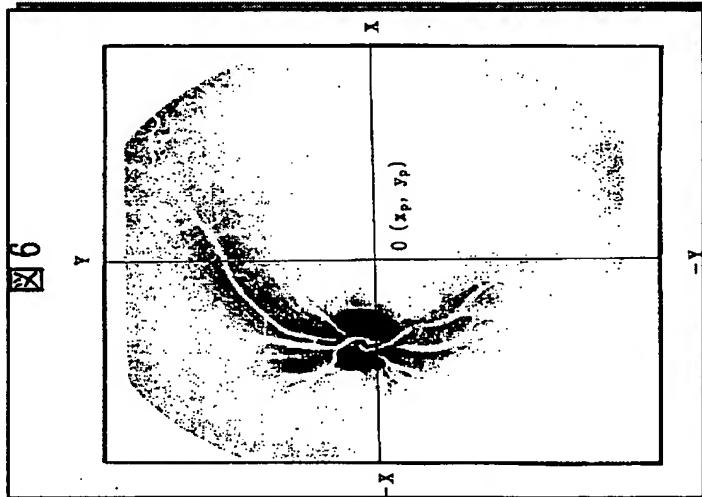
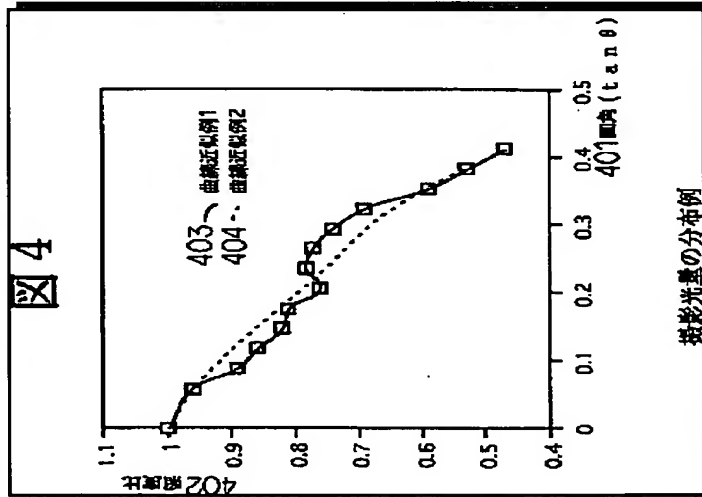


図 4



樹影光量の分布例

図 1

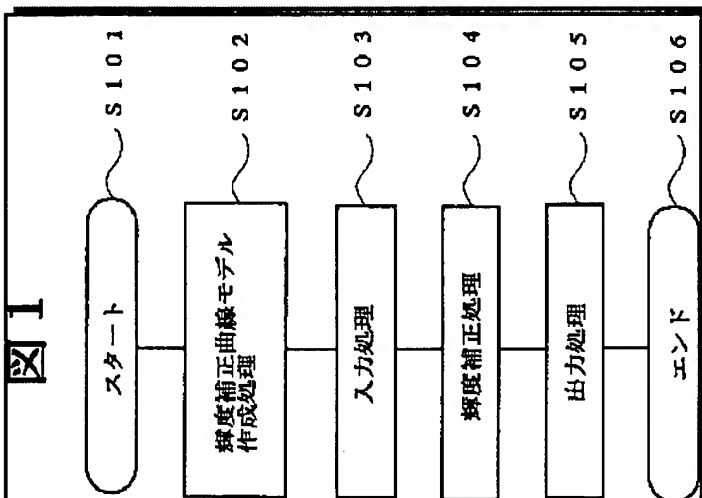


図 1

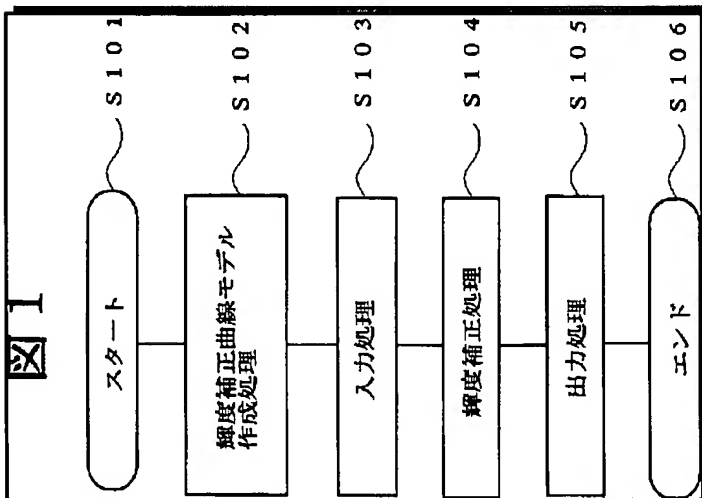


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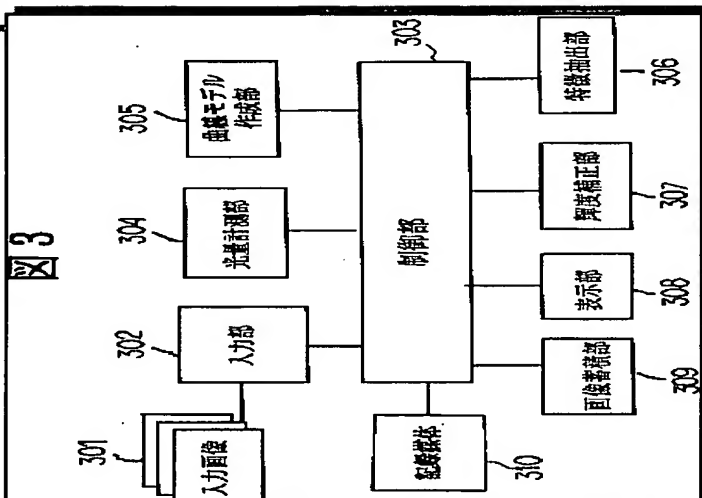


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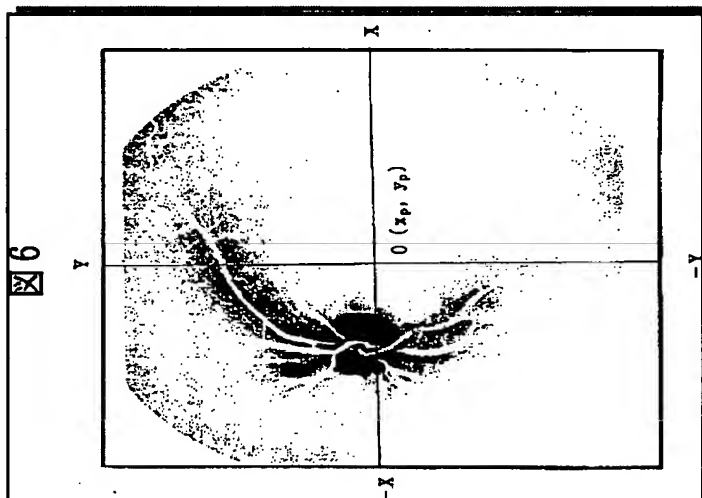


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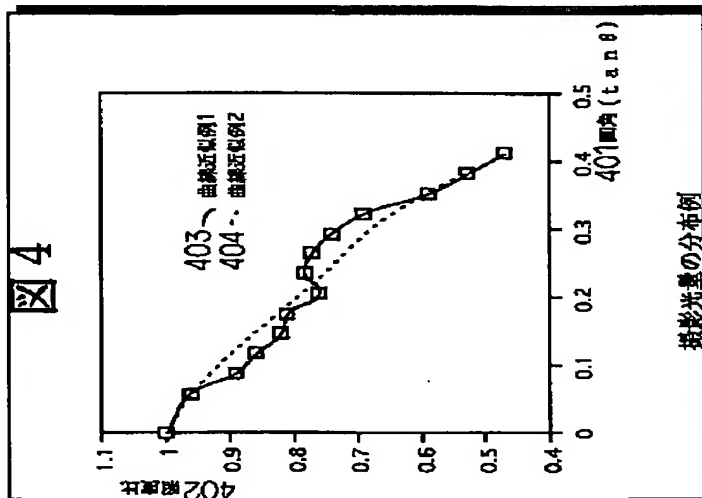


図 2

